

IN THE CLAIMS:

Although the claims are not amended herein, the claims are reprinted for the convenience of the Examiner.

1. (PREVIOUSLY PRESENTED) A method for displaying channel information on a digital television for receiving digital multichannel television broadcasting, comprising the steps of:

changing a current channel to a demanded major channel outside of an EPG environment in response to a demand to change a major channel; and

automatically displaying on a television screen, minor channel numbers of programs received through a currently selected major channel and a number of the major channel.

2. (ORIGINAL) The method as claimed in claim 1, wherein said minor channel numbers are displayed in order of number.

3. (ORIGINAL) The method as claimed in claim 2, wherein said minor channel numbers are displayed after a currently selected major channel number.

4. (ORIGINAL) The method as claimed in claim 1, further comprising the step of hiding said minor channel numbers after a prescribed time elapses.

5. (ORIGINAL) The method as claimed in claim 4, further comprising the step changing a current channel to a demanded minor channel in response to a demand to change a minor channel and returning to said step of displaying of minor channel numbers.

6. (ORIGINAL) The method as claimed in claim 3, further comprising the step of hiding said major channel number and said minor channel numbers after a prescribed time elapse.

7. (PREVIOUSLY PRESENTED) A method for displaying channel information on a digital television for receiving digital multichannel television broadcasting, comprising the steps of:

selecting a radio frequency (RF) channel corresponding to a major channel number selected by a user outside of an EPG environment;

displaying, as a viewing program, a program of a minor channel received through said selected RF channel corresponding to the major channel number selected by the user; and

automatically displaying minor channel numbers received through said major channel on a television screen and the major channel number.

8. (ORIGINAL) The method as claimed in claim 7, wherein said minor channel numbers are arranged in a prescribed direction on said television screen,

9. (ORIGINAL) The method as claimed in claim 8, wherein said minor channel numbers are sequentially arranged after said selected major channel number from a highest minor channel number.

10. (ORIGINAL) The method as claimed in claim 7, wherein said step of displaying a program displays, as said viewing program, a program of a lowest minor channel number among said minor channel numbers.

11. (ORIGINAL) The method as claimed in claim 8, further comprising the step of changing said viewing program by selecting a corresponding minor channel in response to a channel up or down key being pressed.

12. (ORIGINAL) The method as claimed in claim 11, wherein said step of changing said viewing program comprises the steps of:

if said channel up key is pressed, determining if the minor channel number of said viewing program is a highest number among said minor channel numbers;

if the manor channel number of said viewing program is the highest number, displaying a program of a lowest minor channel number as said viewing program, and returning to said step of displaying minor channel numbers;

if the minor channel number of said viewing program is not the highest number displaying a program of a higher number adjacent to the minor channel number of said viewing program, and returning to said step of displaying minor channel numbers;

if a channel down key is pressed, determining if the minor channel number of said viewing program is the lowest number among said minor channel numbers;

if the minor channel number of said viewing program is the lowest number, displaying a program of the highest minor channel number as said viewing program, and returning to said step of displaying minor channel numbers; and

if the minor channel number of said viewing program is not the lowest number, displaying a program of a lower number adjacent to the minor channel dumber of said viewing program, and returning to said step of displaying minor channel numbers.

13. (ORIGINAL) The method as claimed in claim 8, further comprising the step of changing said viewing program by selecting a corresponding major channel and a

corresponding minor channel whenever a channel up or down key is pressed.

14. (ORIGINAL) The method as claimed in claim 13, wherein said step of changing said viewing program comprises the steps of:

if said channel up key is pressed, determining if the minor channel number

of said viewing program is a highest number among said minor channel numbers;

if the minor channel number of said viewing program is the highest number, selecting an RF channel of the next major channel number of said selected major channel, and returning to said step of displaying a program;

if the minor channel number of said viewing program is not the highest number, displaying a program of a higher number adjacent to the minor channel number of said viewing program as said viewing program, and returning to said step of displaying minor channel numbers;

if a channel down key is pressed, determining if the minor channel number of said viewing program is a lowest number among said minor channel numbers; if the minor channel number of said viewing program is the lowest number, selecting an RF channel of the previous major channel number of said selected major channel, and returning to said step of displaying one of minor channel; and

if the minor channel number of said viewing program is not the lowest number, displaying a program of a lower number adjacent to the minor channel number of said viewing program as said viewing program, and returning to said step of displaying minor channel numbers.

15. (CANCELLED)

16. (CANCELLED)

17. (PREVIOUSLY PRESENTED) An apparatus for displaying channel information on a digital television for receiving digital multichannel television broadcasting, comprising:

a channel changing device to change a current channel to a selected major channel outside of an EPG environment; and

a display to automatically display minor channel numbers of programs received through the selected major channel and a number of the major channel.

18. (PREVIOUSLY PRESENTED) A device for displaying channel information on a digital television for receiving digital multichannel television broadcasting, comprising:

a selecting device to select a radio frequency channel corresponding to a major channel number selected by a user outside of an EPG environment; and

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a display to display, as a viewing program, a program of a minor channel received through said selected RF channel corresponding to the major channel number selected by the user, and to automatically display minor channel numbers received through said major channel and the major channel number.

19. (CANCELLED)

20. (PREVIOUSLY PRESENTED) The method as claimed in claim 1, wherein the automatically displaying comprises simultaneously displaying the minor channel number of a selected minor channel and the minor channel number of a non-selected minor channel.

21. (PREVIOUSLY PRESENTED) The method as claimed in claim 1, wherein the automatically displaying comprises simultaneously displaying all of the minor channel numbers

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Comit* of the programs received through the currently selected major channel.
